QUARTERLY GRAIN REPORT

Station	Plobkum	Refuge.			Perio	d	1 to Asser	nst 31, 1944
periods cate, cl should r	ending Jan lipped to, each the l	nuary 31, but not b Regional (d by the p	April accund a Dffice coport.	30, July s a part by the l The Re	31, a of, t Oth of	nd Octol he quar the mo	ber 30. I terly nar nth follow	ring the quarterly Reports in dupli- rative report, wing the close of approval, will
approxim (shelled lbs., Os multiply during p	nate weigh 1)55 lbs uts30 lbs 7 the cubic	ts of grains, Corn (ess., and Mice contents all sour	in shall ear)70 ixed50 s (cu.	l be con O lbs., O lbs. ft.) by	sidere Wheat- In com 0.8 bu	d equiver -60 lbs puting shels.	alent to a ., Barley volume of Report a	e following a bushel: Corn50 lbs., Rye55 granaries, ll grain received g, or harvest
		Received	L	rain Dis	posad	of	On Hand	Proposed Use
Variety	Beginning of Period		Trans- ferred	Soeded	Fed	Total	End of Pericd	Scod Feed Surplus
Corn								
Wheat	35						35	Food
Barley					A.Faudence.clustrumb fortes t.			
Rye								
Oats	90							
Mixed								
		14						
								-
l. Indi	loato shipp	ping or co	ollocti	on peint	s	otemi,	Sontana	
2. Grai 3. Rems	in is store						uge s quarter	
Approved		Director			Submi <i>Jec</i>	tted by Sigra	freste	Title

Refuge Grain Report

Pishkun Refuge

Sept. 1 to December 31, 1944

wheat

Chotesu, Montana

Service Bailding, Fishkun Refuge.

Leon Chnyder

Year 194.

		Thit + or	Actual	Animal	Tons of	Period of Use		Total	
Permittee	Permit No.	Location	Utilized	Months	vested	From - To	Rate	Income	Remarks
State of the Co.	600	3	8	100		372/46 5/32/45	9	8	
School of Pink	11304	0	10430	0		7/11/44 7/105/44	8	00/00 00/00	
20 · 10 · 10 · 10 · 10 · 10 · 10 · 10 ·	11500	0	ののは	404		7/16/44 11/15/44	8	800	
	1000	0		4.4%		7/11/44 11/05/44	8	180° 10	
Lingd B Johnston	1150	3-0	が言いた	126		7/11/46 11/85/44	8	8	
Honey Suck	11500	0	00000	0		7/17/46 11/25/46	8	175.50	
John Makie	11500	0-7	2000	250		Serie I	8	8008	
Carl Hindoregor	71070		01100	220			8	8	
O. M. Olson	11811	0	第二四次	000		113744 13/85/44	8	的 深	
Chas. Hindersgor	17577	0	00000	3		7,137,000 3.37,535,000	8	00 007	
Pater Pains	27270	0	000	166		7.16/44 7/15/45	9 9	8	
Carl Mindoracer	の記念で		3.47	8		1/1/46 5/27/44	S S	20.00	
John Makie	10931	3	0270	8		13/20/44 3/25/45	S	8	n
の日本の一日の日本に 日本日本ので	18936		参照の時	200			8	800	
利力があった。 27ggが出	11514	はの	3		李拉,	7,15/44 5/31/45	8	400.401	•
Poton Home	11815	1 18 18 38	00000		2010	2000	8	4.00	
01000	11016	1900 H-10	2000				8	0	Court proposite
	11517 16-17	10 10 10	88		125.16	00000	8	125,18	
			20		000	THE PARTY OF THE P	8	53,58	
John Minkle		10 - 00 - 00 - 00 E	22		80.00	001000	8	000	ž
Awaren Connect Cons	11580 21-21	Sec. 22. 38. 38	100		40.40	Outro	8	45.46	
		200	22		8.8	\$100 m	8	8	
	11522	116-0-1	ande		2000	0.110	80	8	-
	WOODE !	10-0-	0101		00000		8	8	Total Dayses
		,							
Totals:	Acreage graze	grazed 11,127		Animal	Animal use months	3,630	Total	income G	Total income Grazing
E .				E		- Constant	E 40E		And the case
	Acreage cut for hay all	ior hay		io suoi	Tons of hay cut	200000	Total	Total Income naying	
·									



R-10 E-1, 10/5/44, Benton Lake: Overall view of stock watering unit. 5 new wood tanks 2x4x14*, and an A. B. Wiscensin air cooled engine and pump jack are new equipment owned and installed by the stock grazing permittees.



R-10 1-2, 10/5/44, Benton Lake: Top view of new watering tanks. Note the sturdy construction and the impossibility of cattle being pushed or bunted into the tanks. Also note how dry the ground is on the upper side of the tanks.



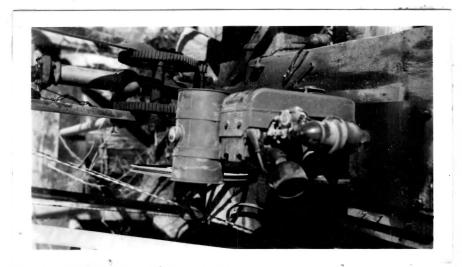
R-10 E-3, 10/5/44, Benton Lake: A 2" pipe carries the water from the pump. It was found that a more uniform level could be maintained in the tanks if the water from the pump was run into the second tank instead of the first.



R-10 E-4, 10/5/44, Benton Lake: 12" galvanized pipes with rubber hose was used in connections between tanks. This rubber hose will be a guarantee against breaking out the ends of the tanks as it will allow for give or settlement of tanks.



R-10 E-5, 10/5/44, Beuton Lake: The law connections between tanks and law overflow in the last tank are not sufficient to take care of all the water when pump is operating at maximum capacity. Note overflow in first tank.



R-10 E-6, 10/5/44, Benton Lake: A two to three horse power engine with pump jack is used to operate pump during periods of insufficient wind.



R-10 E-7, 10/5/44, Benton Lake: This reservoir which is about 6" deep, averages about 20' wide and is about ½ mile long and was created after the installation of the new equipment. Besides making additional storage for stockwatering purposes it is a good small area for waterfowl.



R-11 E-1, 10/5/44, Benton Lake: The area within a radius of about 1 mile around the watering unit is grazed and trampled very heavily. Several watering places are need-



R-11 E-2, 10/5/44, Benton Lake: Outside the 1 mile radius of the watering unit, grass conditions are somewhat better but even here for about another 1 to 1 mile there is much indication of over grazing.



R-11 E-3, 10/5/44, Benton Lake: Note the difference in density of forage along outer edge of refuge as compared with conditions close in around watering unit.



R-11 E-4, 10/5/44, Benton Take: During the latter part of the grazing period when weather was not so hot, cattle grazed farther away from the watering unit. The above cattle are grazing along the eastern edge of the refuge. Note how slick and fat these animals are.



R-11 E-5, 10/5/44, Benton Lake: One stretch of the fire guard which surrounds this refuge. These were maintained twice during the summer months. Permittees performed the second maintainence operation at their own expense.